



Missouri
Department of
Natural Resources

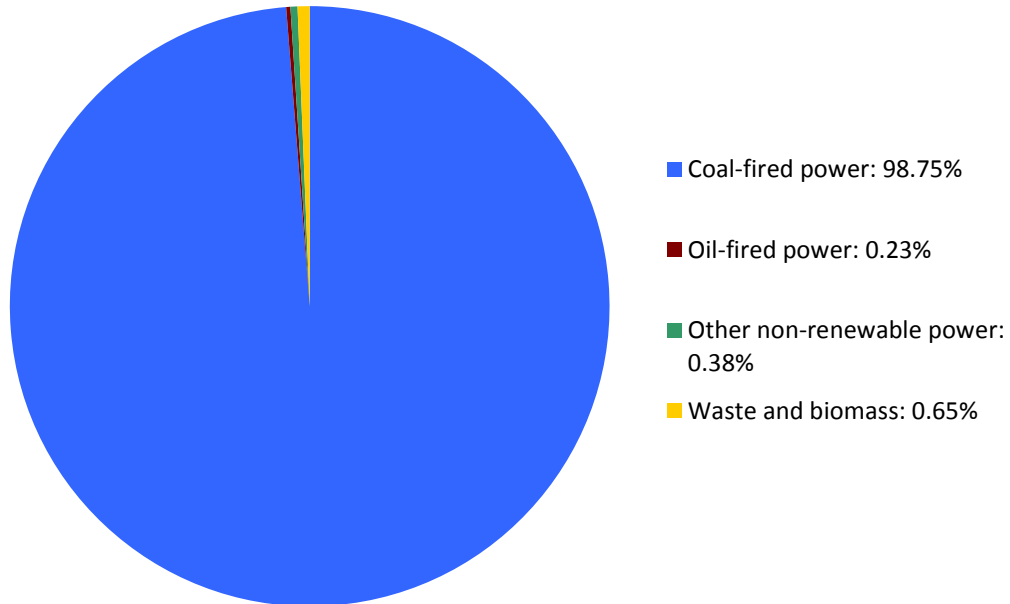
Power Plant: Sibley
Plant Owner: KCP&L Greater Missouri Operations Co
Power generated in 2009 from non-renewable and renewable sources

	Fuel Consumption, MMBTUs	Percent of Total		Net Electric Power Generated in 2009 (MWh)	Percent of Total	
Non-renewable sources						
Coal-fired power	30,886,968	99.39%		2,862,744	99.39%	
Natural gas-fired power						
Oil-fired power	70,648	0.23%		6,532	0.23%	
Nuclear power						
Other non-renewable power	119,457	0.38%		10,983	0.38%	
Non-renewable total	31,077,073	100.00%	99.35%	2,880,259	100.00%	99.35%
Renewable sources						
Hydroelectric Power						
Wind						
Waste and biomass	203,674	100.00%		18,790	100.00%	
Solar						
Geothermal						
Landfill Gas						
Renewable total	203,674	100.00%	0.65%	18,790	100.00%	0.65%
Grand total all sources	31,280,747		100.00%	2,899,049		100.00%

Fuel Type	Physical Units	Number of Units
Bituminous Coal	Short Tons	282,243
Sub-Bituminous Coal	Short Tons	1,366,551
Propane	Mcf	28,258
Other Fuel Types		0
Tire-Derived Fuel	Short Tons	6,395
Agricultural Waste/Biomass	Short Tons	13,056



Net Generation by Fuel Type, 2009 for Sibley





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Emissions from Electricity Generated in 2009

Plant	Carbon Dioxide(CO2) (Tons)	Carbon Monoxide(CO) (Tons)	Ammonia (NH3) (Tons)	Nitrogen Oxides (NOx) (Tons)	Sulfur Dioxides (SO2) (Tons)
Sibley	2,946,396.34	415.75	0.47	2,942.30	11,787.20

Plant	Volatile Organic Compounds (VOC) (Tons)	Course Particulate Matter (PM10) (Tons)	Fine Particulate Matter (PM2.5) (Tons)	Mercury (Hg) (LBS)
Sibley	91.38	4.90	4.58	45.95

'NV' = Emissions value not available.



Pollution controls installed on Sibley

SO2 Controls			
Plant	Control Equipment	Sorbent Type	Operational Efficiency
Sibley	No SO2 Controls Installed		

NOX Controls				
Plant	Device Type	Description	Capture Efficiency	Control Efficiency
Sibley	SCR (SELECTIVE CATALYTIC REDUCTION)	SCR	100.00%	50.00%

Data Sources

- Emissions Data: Missouri Department of Natural Resources, Air Pollution Control Program, Missouri Emissions Inventory System (MOEIS)
<http://www.dnr.mo.gov/env/apcp/moeis/emissionsreporting.htm>
- CO2 Emissions calculated by Missouri Department of Natural Resources, Division of Energy, from EIA Fuel Consumption Data
- Fuel Consumption and Generation Data: United States Energy Information Administration, Form 923, United States Department of Energy
http://www.eia.gov/cneaf/electricity/page/eia906_920.html